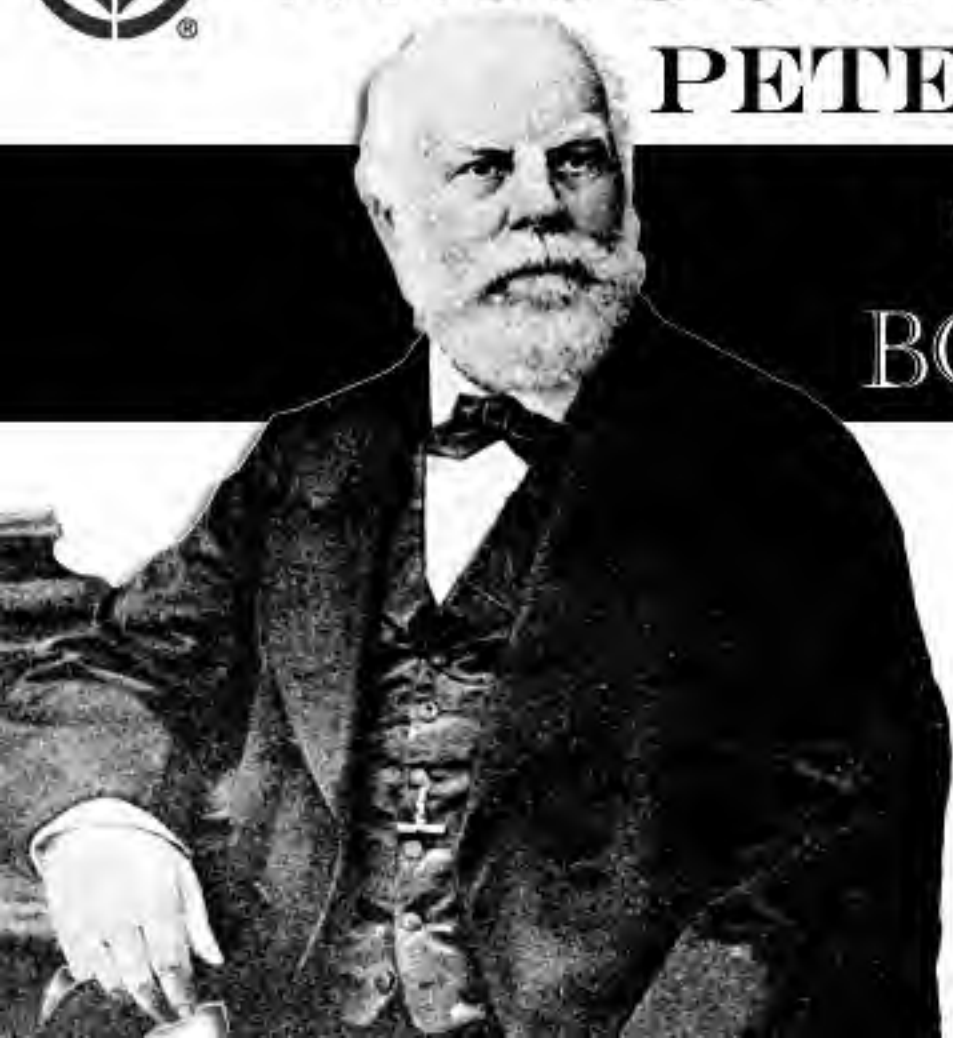




MISSOURI BOTANICAL GARDEN  
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BOTANICAL NOTEBOOKS

*Pagination Note:*

*Since many of the items lack a specific page number, the page number displayed online refers to the sequentially created number each item was given upon cataloging the materials.*

All *Rhodostigma* have  
the hilum much wider behind  
than before 1579  
and corresponding with this  
an anterior carina of seed. The posterior  
embryo blunt at saddle end not rounded



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**JONES & LEITCH,  
DRUGGISTS**

**COR. FIFTH & MARKET STREETS,  
ST. LOUIS, MO.**

*J. M. Kittick & Co. Cor. Main & Vine.*

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xinie verbunden, wie das Profil einer Griechin. Vom germanischen Stamme waren Leontinens Augen; blau, schwärmerisch, romantisch. Die Zähne untadelig und das Haar von einer Fülle, daß es, aufgelöst, wenn nicht die Fersen der kleinen Füße, doch die Knie hätte erreichen können. Es gab in der Residenz Gestalten von einer beim ersten Anblicke eindrucksvollen Schönheit, Musterbilder des Wachses und der Formvollendung, aber wenige von Leontinens einschmeicheln-dem Zauber im Gesamteindrucke. Und sie hatte auch noch den Namen dafür. Die junge Welt streifte am sogenannten Hohen Graben, dem Quartier der Banquiers, vor den Fenstern der „schönen Welt,“ wie man sie nannte, mit allen Ausdrücken der Huldigung vorüber, die für ein meist unter hohen tropischen Pflanzen am Fenster stehendes oder lesendes junges Mädchen nur im Aufblide gesunder oder in der Schärfung schwacher Augen durch vorwichtige Lorgnetten liegen

Ihr Vater, Nathan Simonis, besaß die übliche praktische Lebensauffassung. Man konnte von ihm sagen, er hätte des weisen Nathan Namen deshalb gehabt, weil, wie der Derwisch sagt, seinem Volke eben der Reiche der Weise ist. Die Mutter, wenn sie mehr Bildung besessen hätte, würde das Leben schon mehr nach Leontinens Art gefaßt haben. Der prächtige Name, den sie ihrem Kinde statt des ursprünglichen Lea zugestanden hatte, war eine Huldigung der guten Frau an die Welt des Schönen, ein Act der Anerkennung wenigstens für manche Sprachkenntnisse, die Madame Simonis aus ihrem Jugendunterrichte gerettet hatte. Leontinens Brüder, Vettern, Oheime freilich lebten nur unter materiellen Lebensbedingungen, Eisenbahnactien, Curszetteln, Bankausweisen; doch sorgte schon die Mutter dafür, daß diese Grundlagen ihrer zu größtem Vertrauen des Publicums behaupteten Namen nicht auch gar zu breit sich ausdehnen durf-

graminis rectanguli maj.

Sellowianus

Corynodes

acutatus

erharenus

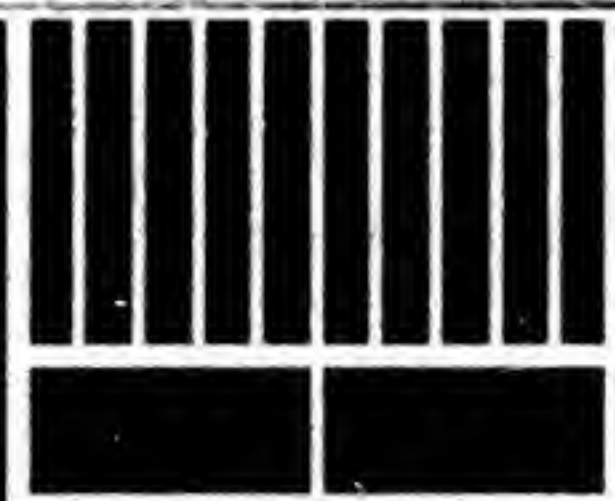
gram. hemisphaer. gemin.

macromorphus

submacromorphus

4507

1579A



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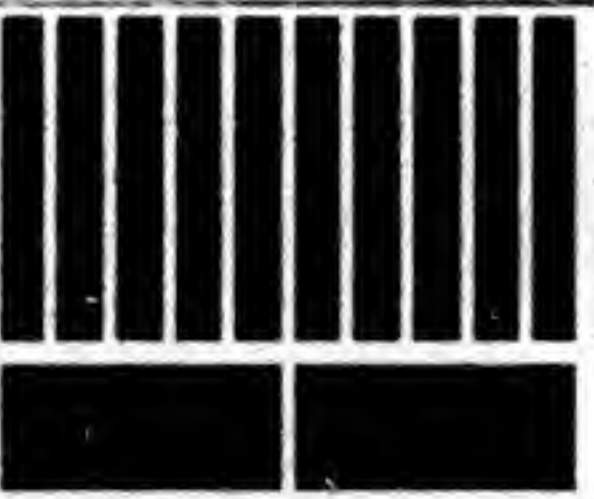
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Jugend war. Es ist und bleibt eine schöne  
zig zählte. Es ist und bleibt eine schöne  
Eigenthümlichkeit bei Reontinens Glaubens=  
genossen, daß sie junge Mädchen die Frei=  
heit und Hoffe ihres älterlichen Hauses  
möglichst lange genießen lassen. Sie ver=  
träumen meist alle ziemlich lange ein glück=  
liches von Liebe gehegtes Dasein im Aeltern=  
hause, bis sie einem inwischen meist leider  
durch kaufmännische Berechnungen vermit=  
telten Nothe anheimfallen. Reontine war  
eine gefeierte Schönheit; Hundert christliche  
Bewerber würden sich schon längst und schon  
von ihrem sechsgehnten Jahre an für sie ge=  
funden haben; aber da sie unter den Chri=  
gen, oder wie Moritz Sando, der Dichter,  
gesagt haben würde, innerhalb des Schello,  
verheirathet werden mußte, so zog sich die  
Entscheidung über die Bestimmung ihres  
Schicksals sehr schon bis in ihr zwanzigstes  
Lebensjahr hinaus. Die geheimen Kinder=  
angucken. Qui den zueinen des Comer=  
sees 3. B. hätte sie alle Partieen aufgegeben,  
von denen um sie her doch zuweilen geflü=  
stert wurde . . . ein Flüßern das ihr immer  
den Eindrud machte, als wenn sie, sitzend in  
ihrem Zimmer unter den breiten Blättern  
eines riesigen Baumbaums, blätternd in  
Gottfried Kinkel's „Stto der Schuß," vom  
drei oder vier Zimmer weit entfernten Comp=  
toir ihres Vaters herüber das Muschütten  
von Geldsäcken vernahm. Dieser Silber=  
klang an sich war nicht unpoetisch, er war  
ihr auch nicht verhaßt, aber er war außer=  
ordentlich gewöhnlich. Er brühte bei ihr  
das Alltägliche aus. Das Geldeinnehen  
und Geldgewinnen klang ihr fast so, als  
wenn sie jeden Morgen die tiefensten For=  
schungen ihrer Mutter beobachten mußte,  
wenn diese mit einer fast contemplativen in=  
nem Mysterium den täglichen Rückengettel erfand.



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*Echin. mammosus* Lem.

May 26 1870

Vienna, Baumann 1857

x 8

1580



inter



surface of seed brown  
x 60

tubercles minute  
shell etc rugulose



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*Echin. submammosus* Lem. May 26 1870  
Vienna, Baumann, 1857

x8



surface of seed brown  
x60

tubercles minute  
slightly stellate rugulose

1581



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*Pch. Courautii*

June 1 1870

material

(Syn. *E. leptocaulis* Link & Otto

Sencke, Leipzig

vide Labouret p. 170

March 1857

Seed most like *Sellowiana*  
& *acutata*



surface x60



1582

Sketch of fruit  
made at the time  
(1857)



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*Pch. acutatus* Link & Otto

May 27 1870

Berlin 1853. Baumann's seed 1857.

x 8



x 60



1583



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1584

*Echin. Sellowianus* Link & Otto

May 25 1870

Vienna, Baumann, 1857

more erect.



2

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3

2

2

upper, cotyledonary end of embryo smaller than  
lower one  
in most or all  
*Rhodostigma*

hilum



micropyle

12 embryos examined;

5 contrary or nearly so (*Cereus*)

3 oblique

4 parallel or nearly so (*Pikinocterus*)

but only 2 straight out contrary  
and 2 — — parallel



different parts

of surface of seed x 60

tubercles rough and opaque  
not shining



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*Pch. erinaceus*

May 26 1870

H. B. Lippig 1857

x 8

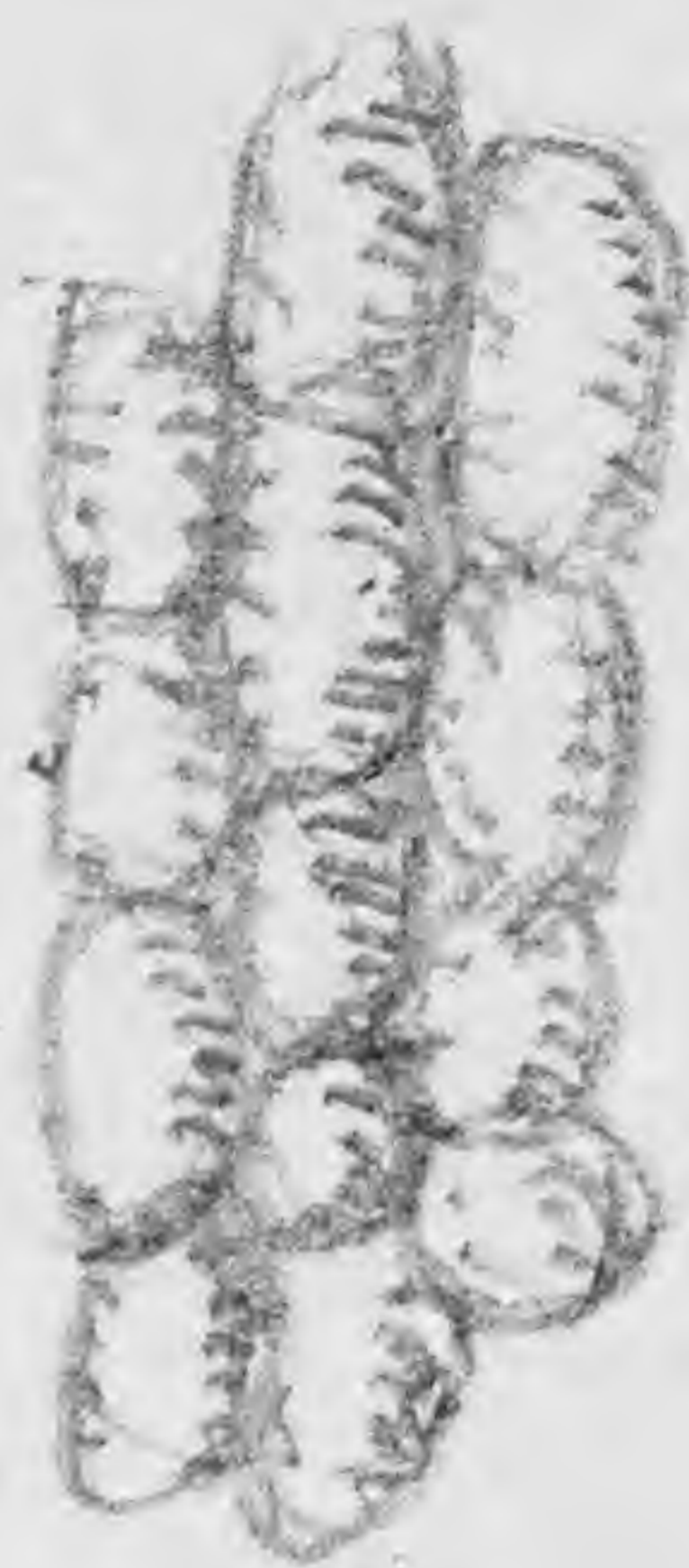


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seed blackish



surface x 60

tubercles

rugulose

1585



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*Echin. corynodes*

May 26 1870

Vienna, Baumann 1857

1586

x 30



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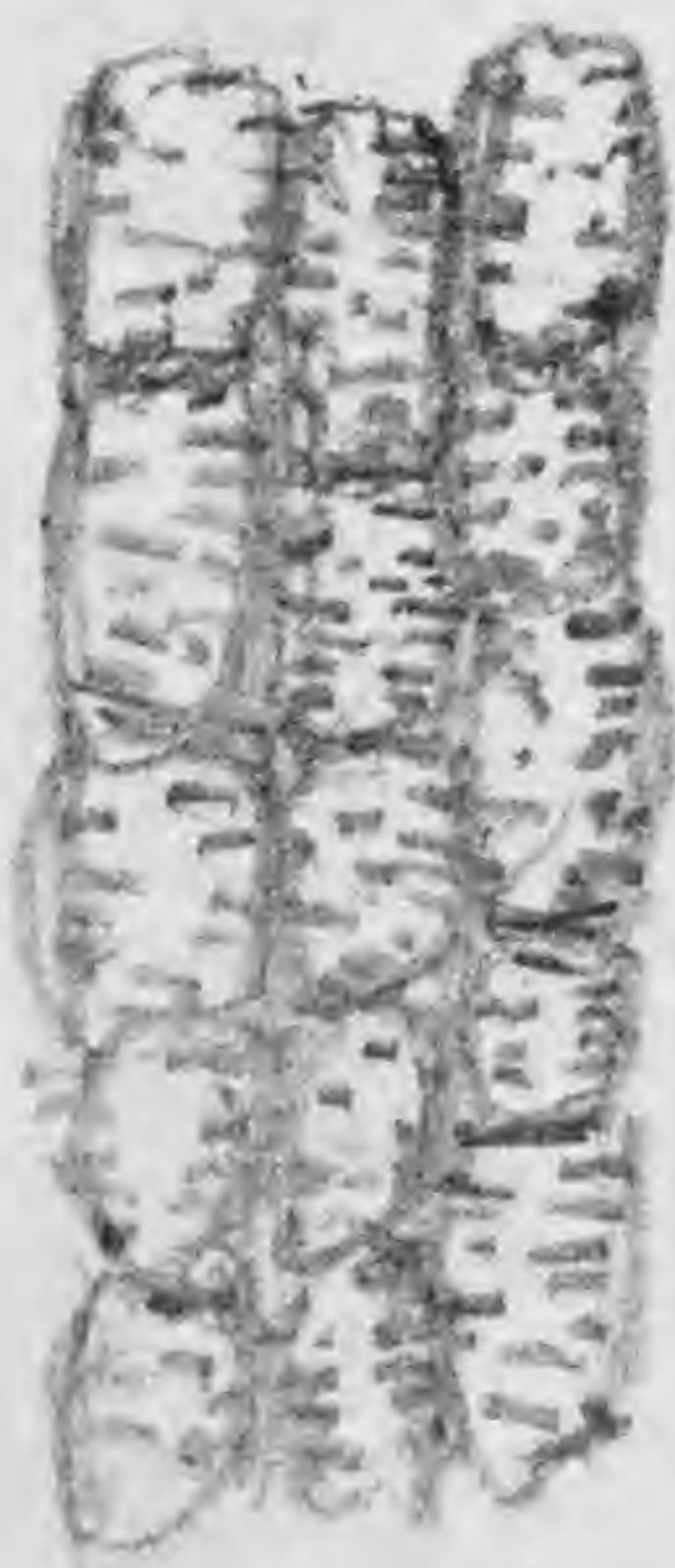
1

embryo almost terete

style mostly oblique



seed dark gray



surface x 60

submolecules somewhat square or rectangular  
more or less in rows  
and rough and  
pitted on surface



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Prag, July 10<sup>th</sup> at Hanke's

1869

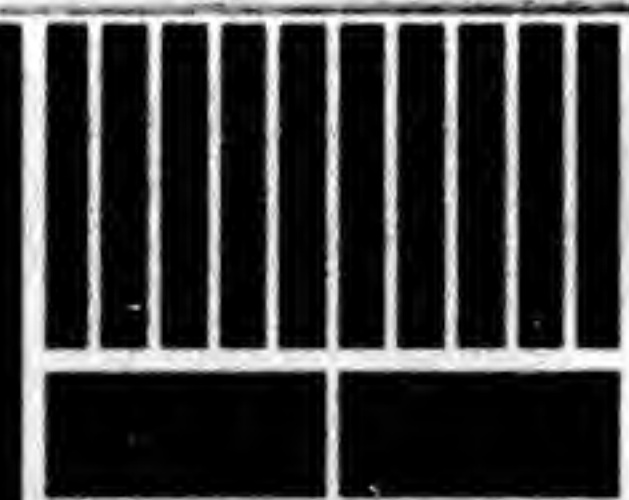
Hybrids of *Ech. Ottonis* ♂ and *Ech. submamulosus* ♀ (= *mamulosus*)  
P. *Ottonis* 12 ribs *Ech. mam.* 20 ribs Hybrid 14 ribs

Hybrid has stouter, bright brown spikes and fewer than *Ottonis*  
tubercles between areolae not so prominent as in *Mammul.*  
while *Ottonis* has none — on the whole the plant is more  
like the mother

Another hybrid between same parents is much more  
like *Ottonis*

Baumann in Vienna has raised seeds from the  
former form and there<sup>Truly</sup> reproduced the ~~plant~~ hybrid

1587



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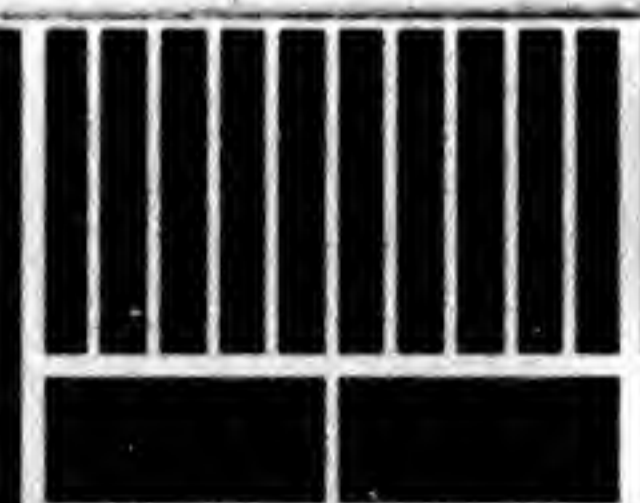
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Hort. Col. Vindobon. July 28 1867

*Pikinoxanthus* (Malacoxanthus) corymbosus

1588

Nectarium cavity extremely small, say  $\frac{1}{2}$  -  $\frac{2}{3}$  mm -  
Staminate part of tube 9 <sup>200 m</sup> both purple!  
Filaments saffron yellow, red at base,  
Style pale yellowish white, slightly 8, petals  
orange purple or orange petals sulphur yellow  
in several series, numerous, shorter, narrower, dentate,  
filiculate, acute  
Flower  $3\frac{1}{2}$  cent wide and long, 8. 30-35 petals, sulphur yellow  
in several series, acute, fringed-dentate, inner ones narrower  
shorter more acute, outer obtusish, cuspidate; sepals, inner ones  
40-45, obcordate with recurved dark murex, outer sepal lanceolate  
unimucronate.



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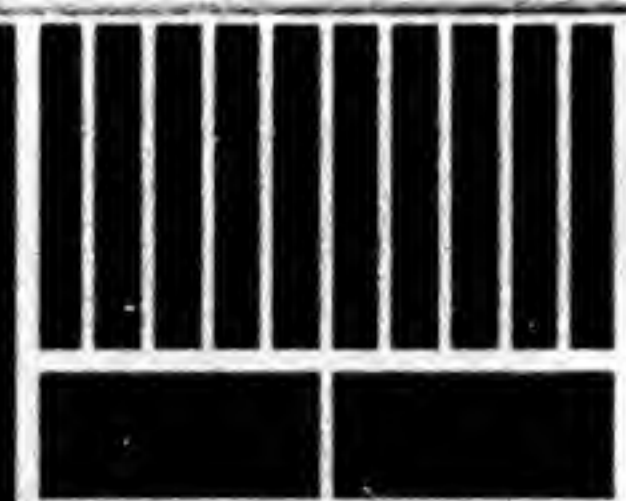
*Pchiocratus sibiricus*

June 24 1866  
several flowers open

22-25 petals linear oblong obtuse denticulate  
at apex

9-11 obtuse thick cretish stigmata

1589



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*Chenopodium mammosum*

1590

H. first time  
June 19 1866

27 petals 8 erect purple stigmata, thick stem  
fl. 22 lines by 27 lines - full expanse



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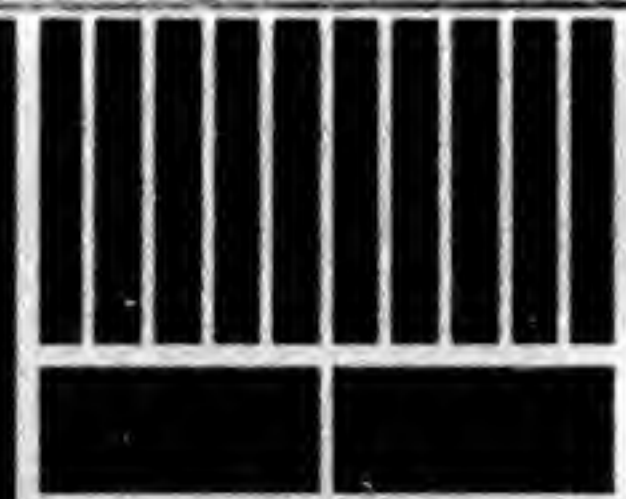
*Chenopodium Ottoni;*

Jun 24 1866

35-40 linear-lanceolate aristulate petals

12-13 gracile acute stigmata erect-petals

1591



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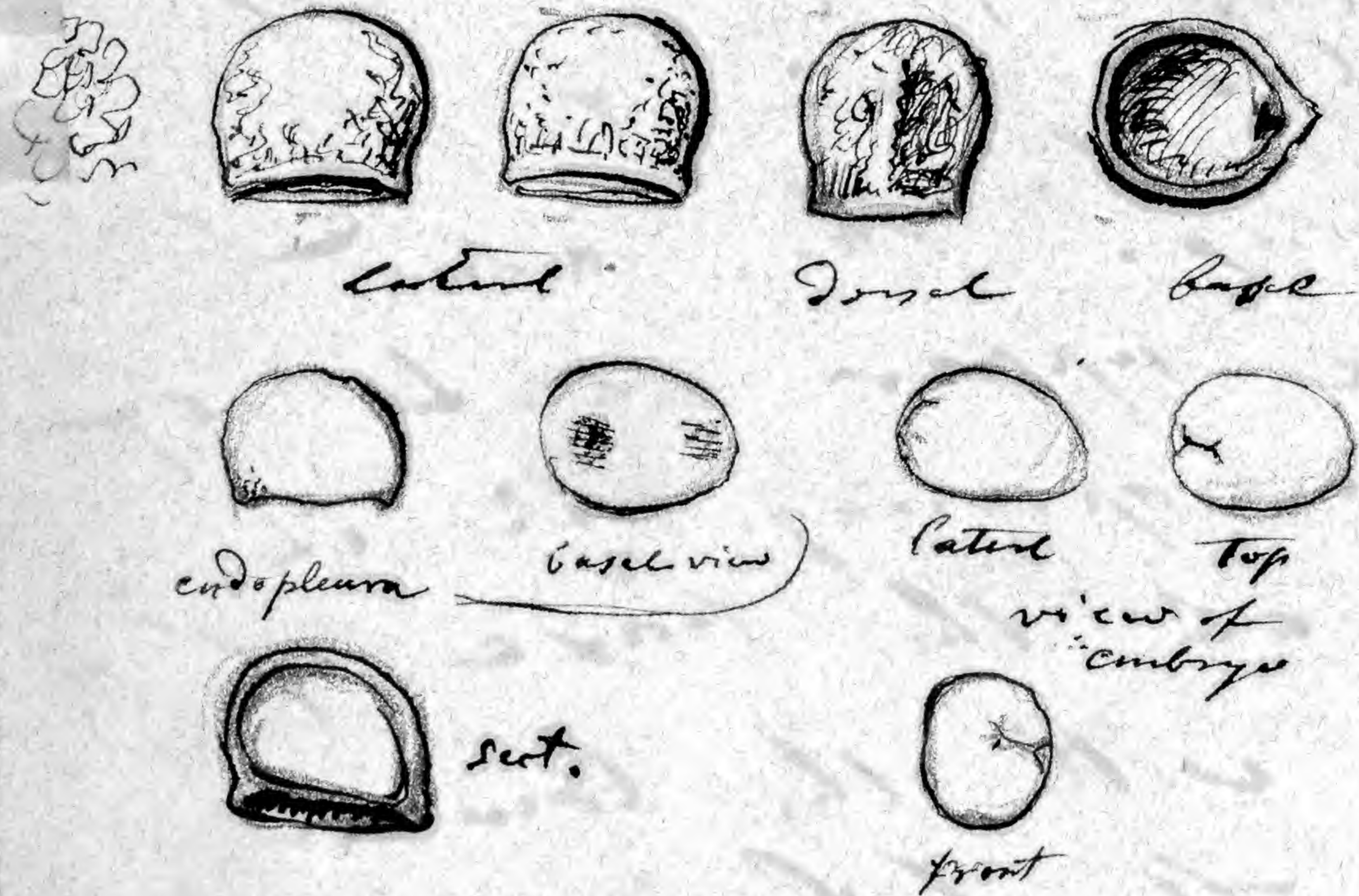
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Frankfurt Febr 1857.

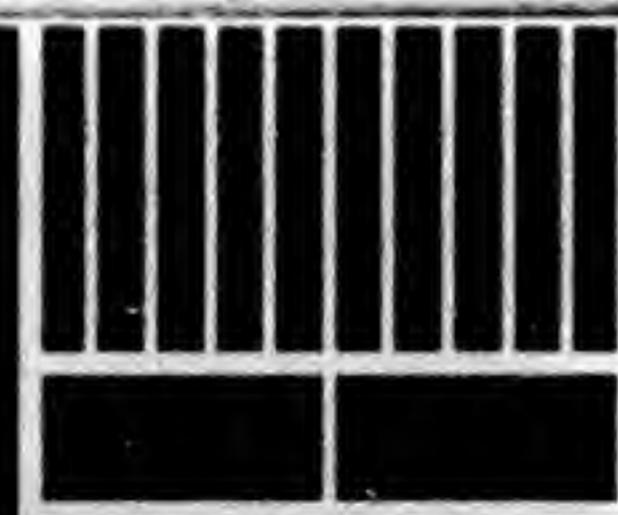
Ech. tenuiflorus (Coll. Jacobi)

0.6-0.7 ; slightly reticulate, black shining  
slightly carinate ; hilum almost circular  
very large . endopleura with two  
thickenings, one anterior, a slighter one  
posterior, corresponding with the two  
openings in the hilum.  
Embryos flattened or depressed; exalt-  
uminous, oblique, anterior  
subparallel or a little oblique, very  
small.

1592



These seeds have been represented as having the hilum basal, but  
the direction of the Embryo indicates that they ought  
to be placed with the hilum ventral or rather sub-  
ventral; in other words, the seed ought to be placed  
in this direction  basal would be dorsal, ventral  
would be top, top  dorsal etc. as dorsal basal. over



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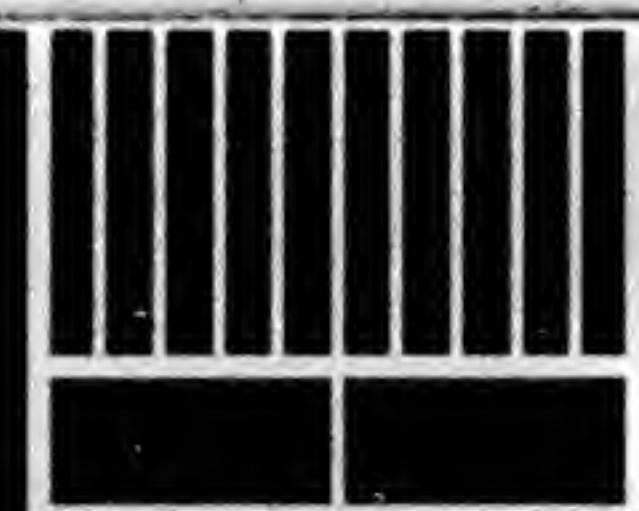
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~~the endopleura has two thickened places~~  
The endopleura has two thickened places  
one at the usual place, i.e. front  
just below the Cotyledons; the and  
corresponding with the upper part of  
the hilum, or the upper opening is if  
the lower thickening is at the base of the  
embryo, corresponding with the lower  
larger opening in the hilum.

Seeds similar to <sup>Echinops stenogoni</sup> ~~Phyllanthi~~; black reticulate testa, subglobose  
(digitaliform) large hilum which, apparently basal, is really subventral or ventral  
if the embryo is considered erect, — no album; cotyled. very short — oblique  
or nearly parallel #



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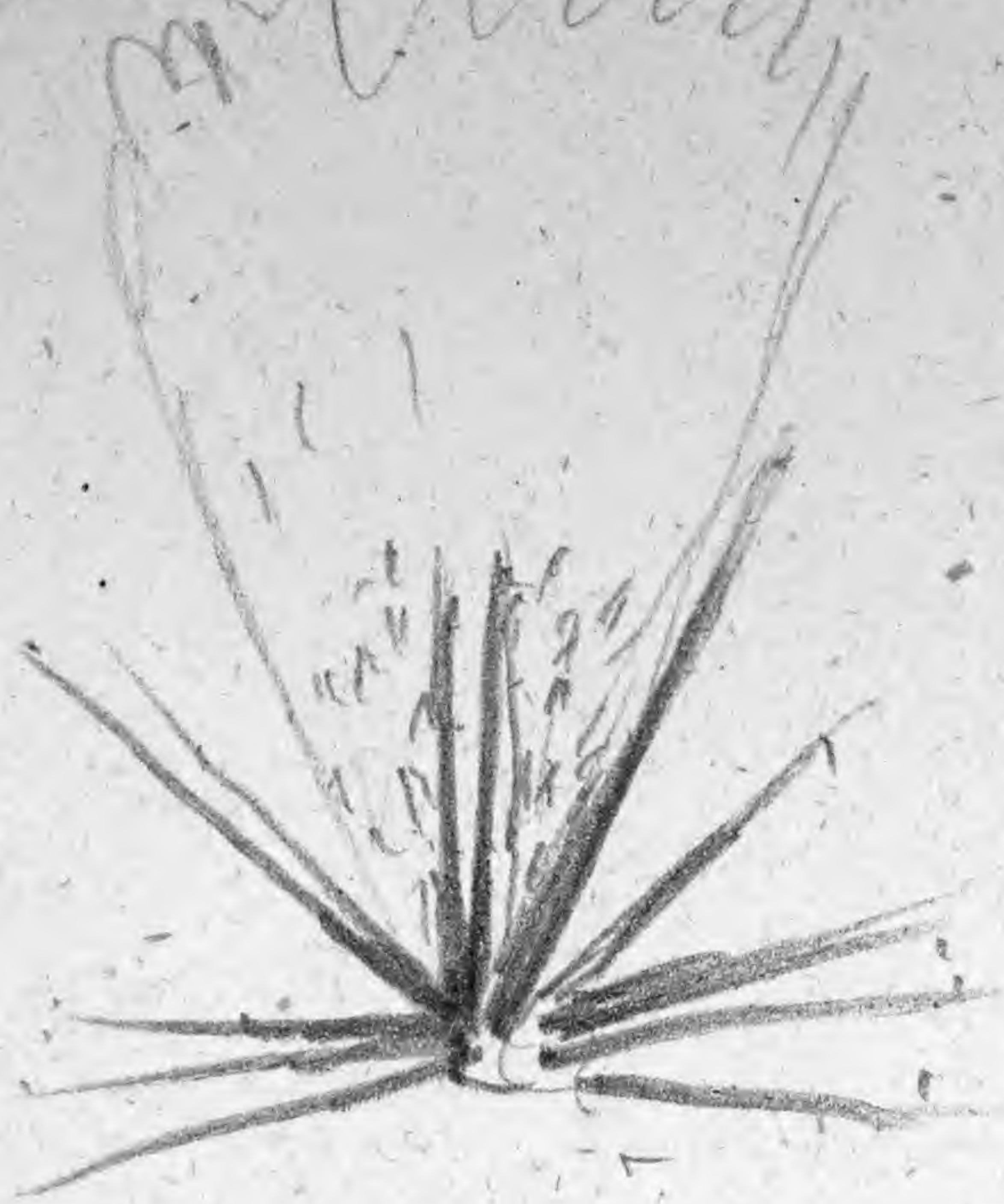
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*Echinospartum curvispinum* Benth  
Chili Benth

Herb. Benth 1869



12 spines straight

sepals numerous, imbricate, lance  
obovate, with a good deal of wool  
in axil

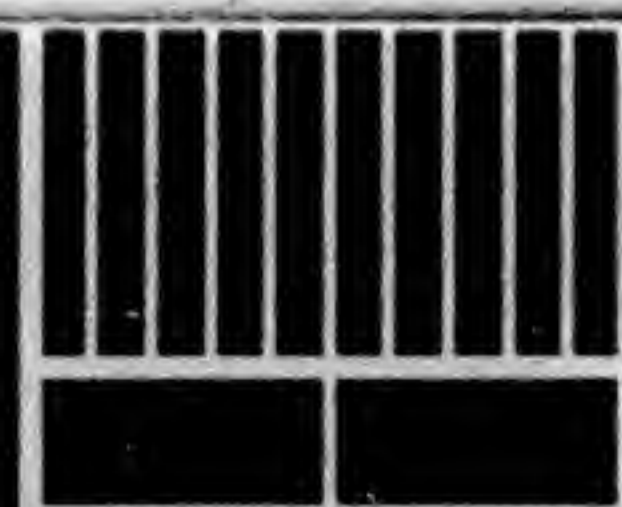
*Echinospartum*,ellow. 3191. 1827 larger

— — — 3193 smaller flower

both similar, involucres - brown wool  
allied to *Ech.* and others

with the red stigmata; brown wool with  
brown spines densely enveloping calyx

1593



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*Handwritten notes at the top of the page, mostly illegible.*

*Handwritten notes in the upper middle section, including the word "height" and "12 ft".*

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*Handwritten notes in the lower middle section, including the word "height" and "12 ft".*



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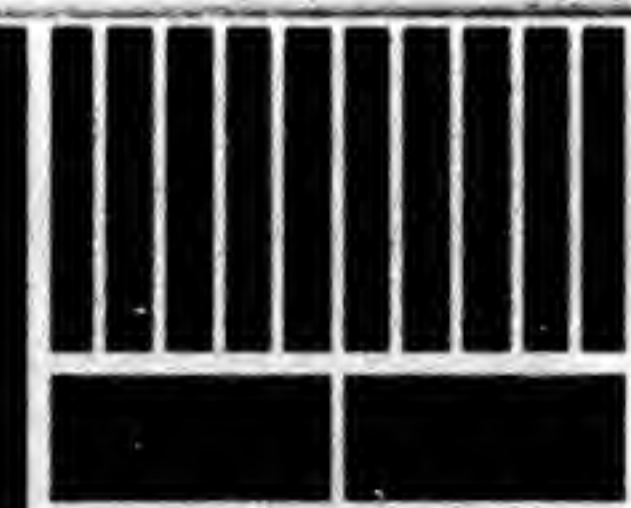


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Pch.ellowianus and acutus very similar;  
flowering throughout the season; flowers yellow,  
1 inch long, externally covered with wool, produced  
from a very woolly top. 1594

P. conynodes said to be very distinct from last,  
but flower apparently very similar in flower  
at least from external appearance. —

H. M. Schreber, Münster  
Jan 1857



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*[Faint, illegible handwritten text, likely bleed-through from the reverse side of the page.]*

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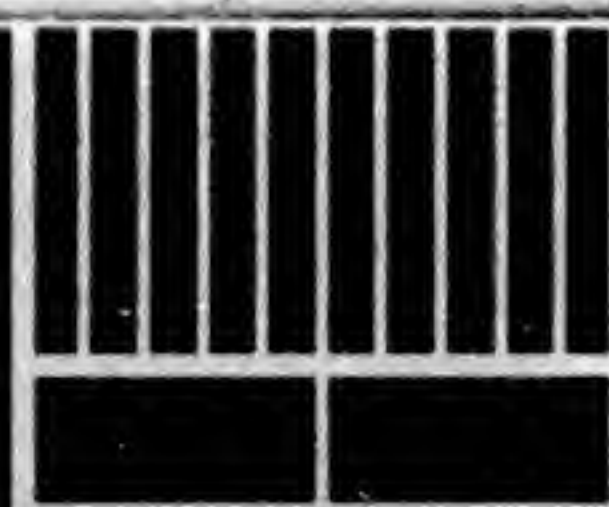


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Jacoby Coahuila  
Hort. Schaffner, Monumento Jun 1857

1595

Echeveria seem's species large yellow flowers, ovary & tube  
covered with sepals in the axils of which brown wool  
and bristles.



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7412



Pollen of *Ech. Scopa* June 1860

fl. deplorat

different shapes

probably from different  
stages of development

1596

Pollen 0.026 lin  
Diam.

*Echinoscopy Scopa*

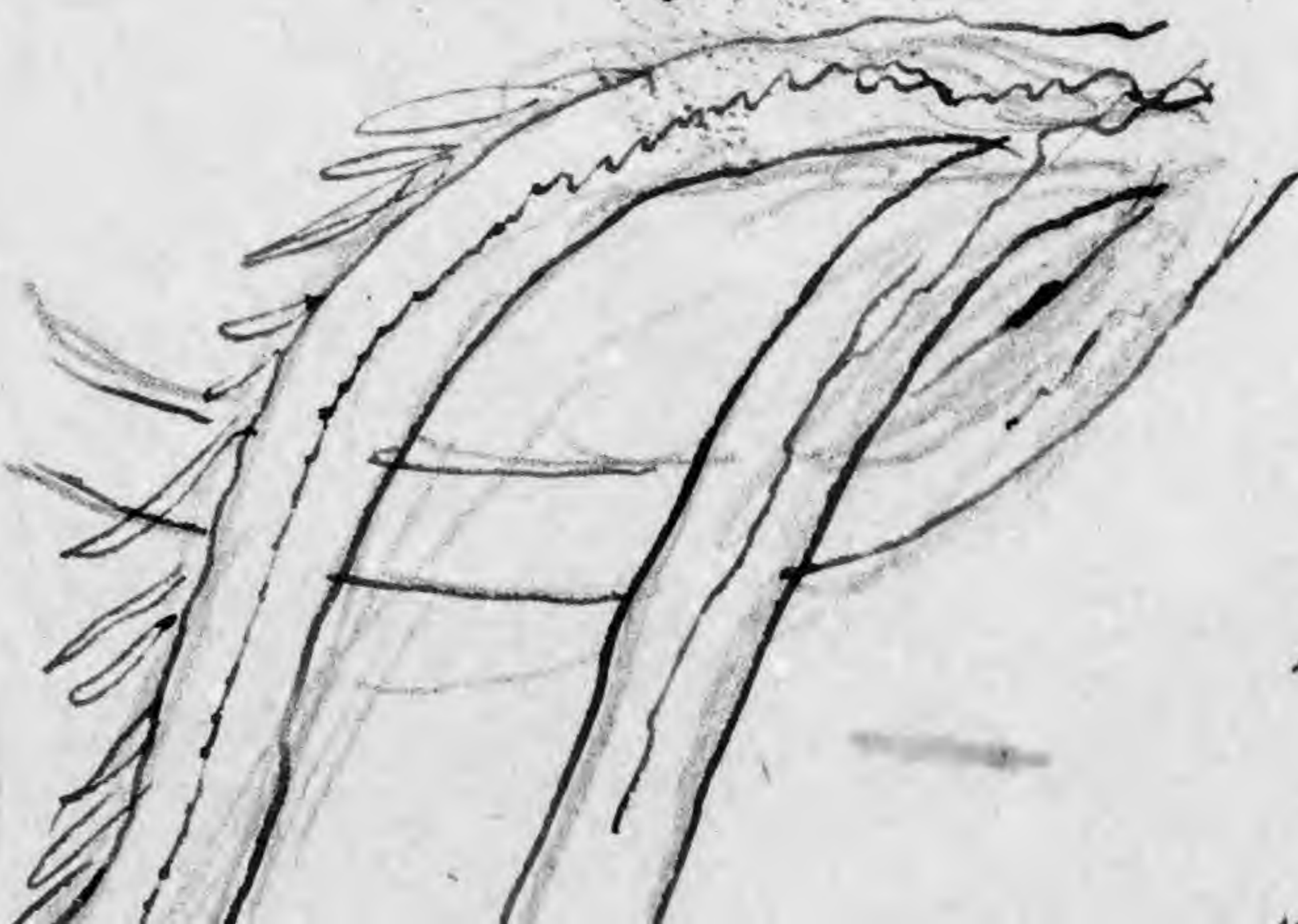
ovule  $\frac{13-14}{60}$  lin

Hort Goebel

St Louis

May 22  
1860

1597



Poll  $\frac{12\frac{1}{2}}{412} \sim \frac{13}{412}$  lin  
granulated



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S  
SOUTH-EAST CORNER OF

M. W. A



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MISSOURI  
BOTANICAL  
GARDEN

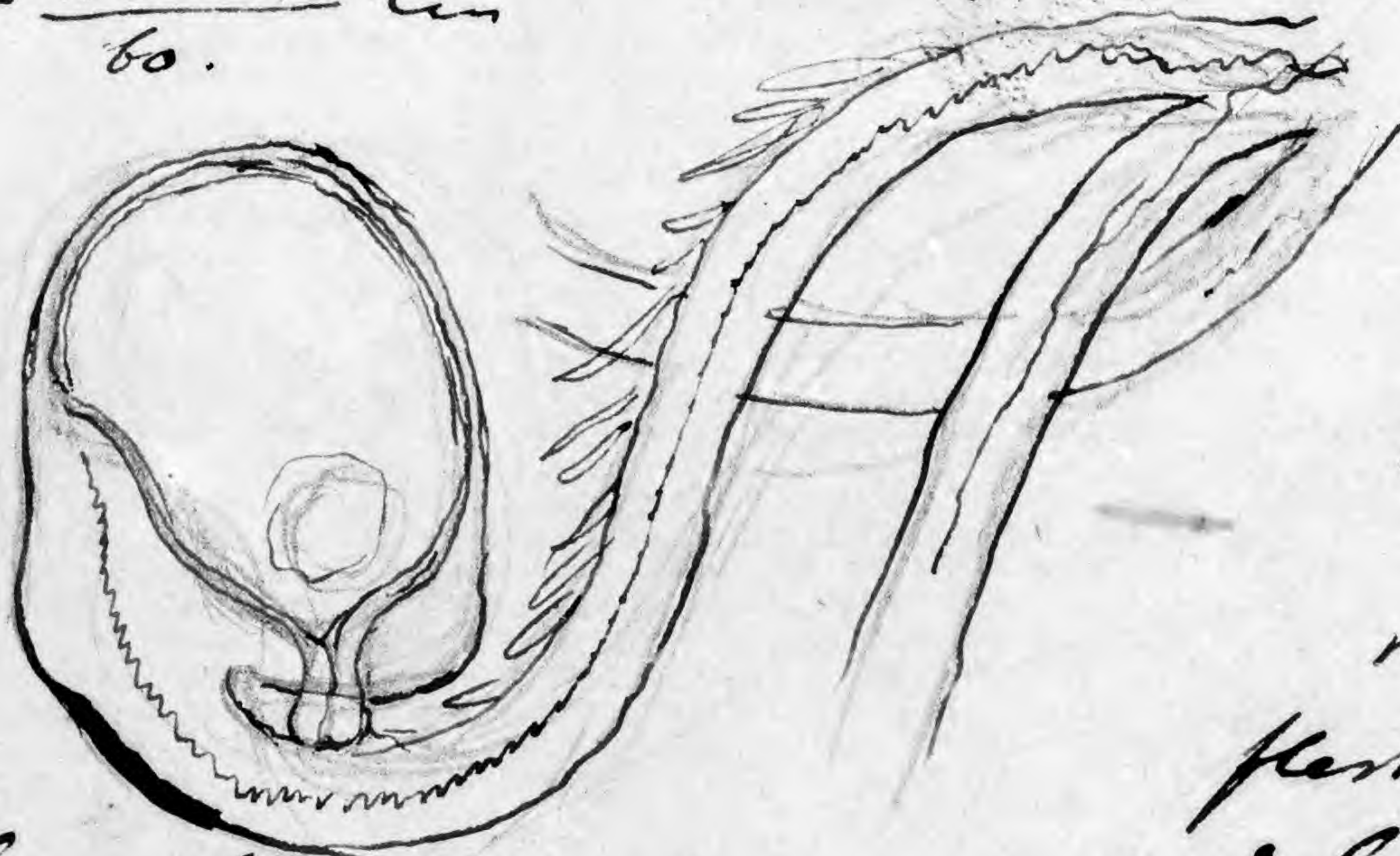
*Ecklonia scoparia*

Hort Goebel

St Louis May 22  
1860

$\frac{13\frac{1}{2}}{60}$  oval  $\frac{13-14}{60}$  lin

flowers from  
the young growth  
in a circle  
around the  
vertex



Poll  $\frac{12\frac{1}{2}}{412}$  ~  $\frac{13}{412}$  li  
granulated

fundulus twice as long  
as oval, simple  
or branched at base  
style all deep red, stigma entirely  
10 erect, 1 line long.

20-25 upper sepals, petaloid, pale yellow, lanceolate  
about 30 oblong oblanceolate or cuspidate, acute  
or imbricated or denticulate petals, lanceolate  
stamens from base of shallow tube about 3 lines, yellow

numerous lanceolate subulate  
fleshy green scales on ovary  
at lower part of tube with  
abundant wool (white under  
neath, brown above) and  
about 3 brown bristles in the  
axils - wool enveloping the  
whole ovary & tube.



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M. W. ALEXANDER,

SOUTH-EAST CORNER OF FOURTH AND MARKET STREETS,  
ST. LOUIS.

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